

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match.
The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.
Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

C-A OPERATIONS PROCEDURES MANUAL

12.53 Emergency Stop Activation Response

Text Pages 2 through 4

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: _____ ***Signature on File*** _____
Collider-Accelerator Department Chairman Date

M. Wiplich

12.53 Emergency Stop Activation Response

1. Purpose

The purpose of this procedure is to define the sequence of activities required to respond to the activation of an Emergency Stop Button.

2. Responsibilities

It is the responsibility of the person or persons executing this procedure to observe all safety rules.

3. Prerequisites

The person or persons executing this procedure shall have all formal training required of a TVDG Operator.

4. Precautions

None.

5. Procedure

5.1 Emergency Stop Button Responses

5.1.1 The approximate location of the Emergency Stop Button that was activated will be indicated by a light in the "Machine Stoppage" section of the Radiation Safety System Display Panel located in the Control Room. The panel contains lights for MP-6, MP-7, TR1, TR2, TR3, TR4 and Zones 1 to 13 of TtB.

5.1.2 Four Areas Where Stoppage May Have Occurred

5.1.2.1 If the stoppage occurred in either the MP-6 or MP-7 areas, the corresponding accelerator in that area will shut down. The corresponding NII and charging system will shut off and the Faraday cups will be automatically inserted.

5.1.2.2 If the stoppage occurred in TR1, the MP-6 H.E. and Image Faraday Cups will be automatically inserted.

5.1.2.3 If the stoppage occurred in TR2, TR3 or TR4, the MP-7 H.E. and Image Faraday Cups will be automatically inserted.

5.1.2.4 If the stoppage occurred in TtB, only the TtB beam stops will be automatically inserted.

5.2 Action To Be Taken In The Event Of An Emergency Stop Button Activation

- 5.2.1 The Operator In Charge (OIC) shall dispatch an operator, (equipped with an FM transceiver), to search the appropriate area for the cause of the stoppage.
- 5.2.2 The OIC shall request Emergency Force support by calling extension 2222 or 911. This shall be done immediately.
- 5.2.3 The OIC shall make the following announcement over the PA system:
"An Emergency Stop has been activated in the (area corresponding to the activated light). Would the person responsible for activating the Emergency Stop please call the Control Room at extension 4584. A search is in progress."
- 5.2.4 The OIC shall shut down the accelerators if deemed necessary.
- 5.2.5 The OIC shall notify the Emergency Coordinator (EC), or the Designated Alternate Coordinator, of the Alarm Status. See [Emergency Notification List](#) for names and phone numbers of personnel to contact. If these persons are not immediately available, the OIC shall assume the duties and responsibilities of Emergency Coordinator.
- 5.2.6 The EC will provide assistance and advice to the Emergency Forces.
- 5.2.7 The OIC shall notify the following personnel:
 - 5.2.7.1 The TVDG Safety Officers
 - 5.2.7.2 The Operations Supervisor
 - 5.2.7.3 The Group Leader
 - 5.2.7.4 See [Emergency Notification List](#) for phone numbers.

5.3 After The Event Is Over

- 5.3.1 The OIC shall document the incident in the Radiation Safety Log Book and the Operations Log Book.
- 5.3.2 The OIC shall obtain an OK to clear and resume operation from one of the people listed in 5.2.7 above.

- 5.3.3 After receiving clearance, the OIC should clear the response and re-start the ion sources and accelerators as required.
- 5.3.4 The LEC and/or TVDG ES&H coordinator shall categorize and, if necessary, report the occurrence in accordance with the [C-A-OPM 10.1, Occurrence Reporting and Processing of Operations Information](#), and BNL Occupational Health and Safety Guide, [Section 1.1.0 -Occurrence Reporting System](#).

6. Documentation

None

7. References

- 7.1 [Emergency Notification List](#).
- 7.2 BNL Occupational Health and Safety Guide, [Section 1.1.0 -Occurrence Reporting System](#).
- 7.3 [C-A-OPM 10.1, Occurrence Reporting and Processing of Operations Information](#)

8. Attachments

None